Criteria For Development of Evacuation Time Estimate Studies

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ETE Topics

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- What is an ETE?
- ETE Development
- New concepts
- NRC rule change
- Update criteria

What Is An ETE?

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- Time to evacuate the 10 mile EPZ
- Info for Protective Action Recommendation (PAR)
- Offsite Response Organizations (OROs) use for Protective Action Decision (PAD)

ETE Development

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- Four population groups
- Multiple scenarios
- Based on emergency response planning areas (ERPAs)

ETE Development

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- Four Population Groups
  - Permanent residents and transients
  - Transit-dependent permanent residents
  - Special facility residents
  - Schools

ETE Development

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- Multiple scenarios
  - Ensure ETE has range of evacuation times
  - Minimum 10 scenarios

ETE Development

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- Based on Emergency Response Planning Areas (ERPAs)
  - Local planning areas within EPZ
  - By geographical or political boundaries

ETE Development

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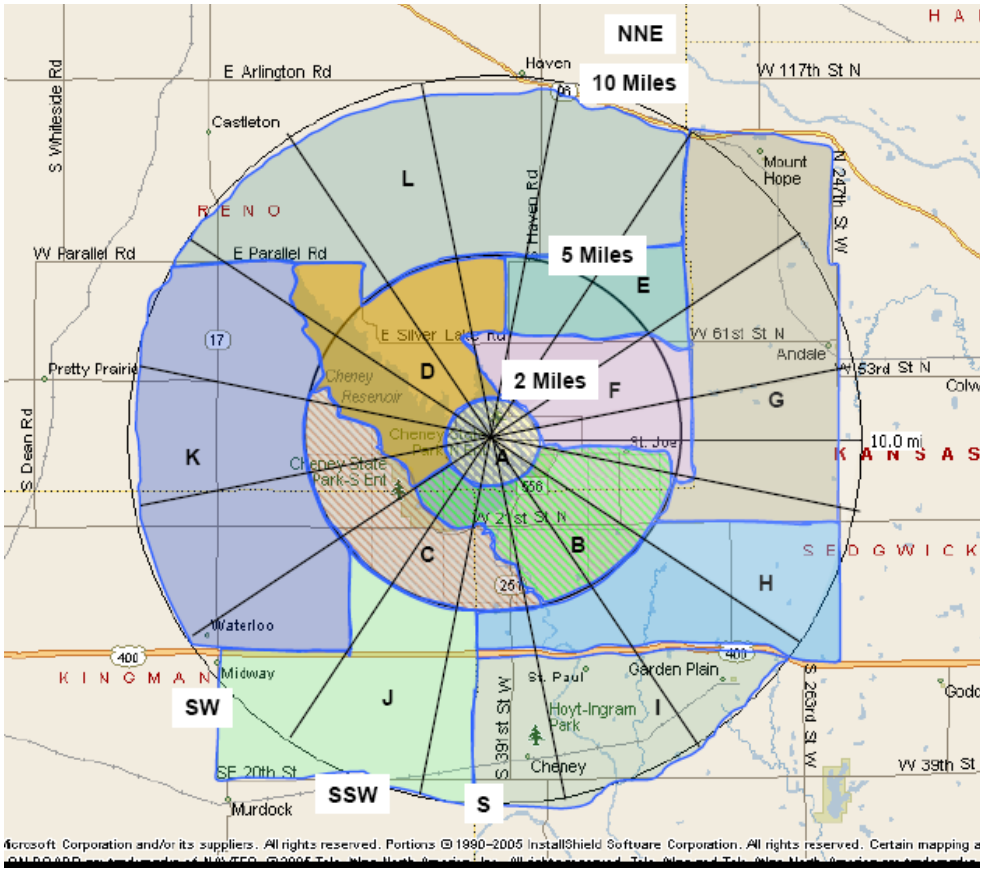

New Concepts

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- Staged Evacuation
- Evacuation Tail
- Shadow Evacuation
- ETE Updates

New Concepts

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- Staged Evacuation
  - 0-2 mile zone evacuates
    - 2-5 mile zone shelters
  - 2-5 mile downwind (keyhole) evacuates
    - following 90% evacuation time of 0-2 mile zone

New Concepts

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- Evacuation Tail
  - 10 percent of public takes longer to evacuate
  - Decision-makers use 90% ETE value

New Concepts

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- Shadow Evacuation
  - Occurs outside official evacuation zone
  - 20 percent shadow evacuation assumed out to 15 miles from nuclear power plant

Rule Change

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New Addition

"Evacuation time estimates have been developed by applicants and licensees. Licensees shall update the evacuation time estimates on a periodic basis."

Update Criteria

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- Mandatory ETE Updates
  - Within 365 days of availability of most recent decennial census
  - Population increase

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Questions?

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